

## SAFETY DATA SHEET

### METO

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name

METO

Product no.

1303

Unique formula identifier (UFI)

CC00-COPA-A00S-8D1S

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Cleaning product

Restricted to professional and industrial use.

Uses advised against

None known.

##### 1.3. Details of the supplier of the safety data sheet

###### ▼ Company and address

**Trion Tensid AB**

Svederusgatan 3A

SE-75450 Uppsala

Sweden

+46 18 15 61 90

www.trion.se

###### ▼ Contact person

Lina Åkerblom

E-mail

info@trion.se

Revision

10/03/2026

SDS Version

6.0

Date of previous version

29/01/2026 (6.0)

##### 1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)

General public:

England - Dial 111 to reach NHS 111 (24 hour service)

Scotland - Dial 111 to reach NHS 24 (24 hour service)

Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)  
See section 4 "First aid measures".

## SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

### 2.1. Classification of the substance or mixture

Skin Corr. 1; H314, Causes severe skin burns and eye damage.  
Eye Dam. 1; H318, Causes serious eye damage.

### 2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s)

General

Not applicable.

Prevention

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Storage

Not applicable.

Disposal

Dispose of contents/container in accordance with local regulation (P501)

Hazardous substances

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

phosphoric acid

Hydrogen chloride

Ammonium bifluoride

Additional labelling

UFI: CC00-C0PA-A00S-8D1S

### 2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

| Product/substance                                        | Identifiers                                                                     | % w/w  | Classification                                                                                                                   | Note |
|----------------------------------------------------------|---------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | CAS No.: 68411-30-3<br>EC No.: 270-115-0<br>UK-REACH:<br>Index No.:             | 15-25% | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412                                         |      |
| phosphoric acid                                          | CAS No.: 7664-38-2<br>EC No.: 231-633-2<br>UK-REACH:<br>Index No.: 015-011-00-6 | <10%   | Skin Corr. 1B, H314 (SCL: 25.00 %)                                                                                               | [1]  |
| Hydrogen chloride                                        | CAS No.: 7647-01-0<br>EC No.: 231-595-7<br>UK-REACH:<br>Index No.: 017-002-00-2 | <2%    | Skin Corr. 1B, H314 (SCL: 25.00 %)<br>Acute Tox. 3, H331<br>STOT SE 3, H335 (SCL: 10.00 %)                                       | [1]  |
| Ammonium bifluoride                                      | CAS No.: 1341-49-7<br>EC No.: 215-676-4<br>UK-REACH:<br>Index No.: 009-009-00-4 | <0,5%  | Acute Tox. 3, H301<br>Skin Corr. 1B, H314 (SCL: 1.00 %)<br>Skin Irrit. 2, H315 (SCL: 0.10 %)<br>Eye Irrit. 2, H319 (SCL: 0.10 %) |      |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### Other information

[1] European occupational exposure limit.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

If in eyes: Flush eyes with plenty of water or saline solution (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

#### Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

#### Burns

Not applicable.

#### 4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

#### 4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

#### 6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage conditions

4 - 25 Celcius

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

phosphoric acid

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 1

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 2

Hydrogen chloride

Long term exposure limit (8 hours) (ppm): 1

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 2

Short term exposure limit (15 minutes) (ppm): 5

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 8

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.  
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

### DNEL

Ammonium bifluoride

| Duration:                              | Route of exposure: | DNEL:                 |
|----------------------------------------|--------------------|-----------------------|
| Long term – Systemic effects - Workers | Inhalation         | 2,3 mg/m <sup>3</sup> |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

#### phosphoric acid

| Duration:                                         | Route of exposure: | DNEL:         |
|---------------------------------------------------|--------------------|---------------|
| Long term – Local effects - General population    | Inhalation         | 0,36 mg/m3    |
| Long term – Local effects - Workers               | Inhalation         | 1 mg/m3       |
| Long term – Systemic effects - General population | Inhalation         | 4,57 mg/m3    |
| Long term – Systemic effects - Workers            | Inhalation         | 10,7 mg/m3    |
| Short term – Local effects - Workers              | Inhalation         | 2 mg/m3       |
| Long term – Systemic effects - General population | Oral               | 0,1 mg/kg/day |

#### PNEC

##### Ammonium bifluoride

| Route of exposure:     | Duration of Exposure: | PNEC:    |
|------------------------|-----------------------|----------|
| Freshwater             | Single                | 1,3 mg/L |
| Sewage treatment plant | Single                | 76 mg/L  |
| Soil                   | Single                | 22 mg/kg |

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

#### Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

#### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

#### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

#### Individual protection measures, such as personal protective equipment

##### Generally

Wash contaminated clothing before reuse.

Use only UKCA marked protective equipment.

##### Respiratory Equipment

| Work situation | Type                                        | Class | Colour | Standards |
|----------------|---------------------------------------------|-------|--------|-----------|
|                | Respiratory protection is not needed in the | -     | -      | -         |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

| Work situation                          | Type                           | Class | Colour                         | Standards |
|-----------------------------------------|--------------------------------|-------|--------------------------------|-----------|
|                                         | event of adequate ventilation  |       |                                |           |
| In the case of insufficient ventilation | Combination filter A2B2E2K2-P3 |       | Brown/Gray/Yellow /Green/White | EN14387   |



#### Skin protection

| Recommended                             | Type/Category | Standards |
|-----------------------------------------|---------------|-----------|
| Dedicated work clothing should be worn. | -             | -         |



#### Hand protection

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards |
|----------|----------------------|--------------------------|-----------|
| Nitrile  | 0,4                  | >480                     | EN374-2   |



#### Eye protection

| Type                                   | Standards |
|----------------------------------------|-----------|
| Wear safety glasses with side shields. | EN166     |



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Liquid

#### Colour

Brown

#### Odour / Odour threshold

Characteristic

#### pH

1

#### Density (g/cm<sup>3</sup>)

1.05

#### Kinematic viscosity

No data available.

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

#### Melting point/Freezing point (°C)

No data available.

Softening point/range (°C)

Does not apply to liquids.

Boiling point (°C)

No data available.

Vapour pressure

No data available.

Relative vapour density

No data available.

Decomposition temperature (°C)

No data available.

Data on fire and explosion hazards

Flash point (°C)

Not applicable - estimated flash point > 200 °C

Flammability (°C)

Not applicable - estimated flash point > 200 °C

Auto-ignition temperature (°C)

Not applicable - estimated flash point > 200 °C

Lower and upper explosion limit (% v/v)

Not applicable - estimated flash point > 200 °C

Solubility

Solubility in water

Completely soluble

n-octanol/water coefficient (LogKow)

No data available.

Solubility in fat (g/L)

No data available.

9.2. Other information

Other physical and chemical parameters

No data available.

Oxidizing properties

No data available.

## SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### ▼ Acute toxicity

|                    |                                                          |
|--------------------|----------------------------------------------------------|
| Product/substance  | Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts |
| Test method:       | OECD 401                                                 |
| Species:           | Rat                                                      |
| Route of exposure: | Oral                                                     |
| Test:              | LD50                                                     |
| Result:            | 1980 mg/kg                                               |

|                    |                 |
|--------------------|-----------------|
| Product/substance  | phosphoric acid |
| Species:           | Rat             |
| Route of exposure: | Oral            |
| Test:              | LD50            |
| Result:            | 300-2000 mg/kg  |

|                    |                   |
|--------------------|-------------------|
| Product/substance  | Hydrogen chloride |
| Species:           | Rabbit            |
| Route of exposure: | Oral              |
| Test:              | LD50              |
| Result:            | 900 mg/kg ·       |

|                    |                   |
|--------------------|-------------------|
| Product/substance  | Hydrogen chloride |
| Species:           | Rabbit            |
| Route of exposure: | Dermal            |
| Test:              | LD50              |
| Result:            | >5010 mg/kg ·     |

|                    |                   |
|--------------------|-------------------|
| Product/substance  | Hydrogen chloride |
| Species:           | Rat               |
| Route of exposure: | Inhalation        |
| Test:              | LC50              |
| Result:            | 3 124 ppm/1h ·    |

|                    |                     |
|--------------------|---------------------|
| Product/substance  | Ammonium bifluoride |
| Species:           | Rat                 |
| Route of exposure: | Oral                |
| Test:              | LD50                |
| Result:            | 130 mg/kg ·         |

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| Product/substance | Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts |
| Test method:      | OECD 404                                                 |
| Species:          | Rabbit                                                   |
| Result:           | Adverse effect observed (Irritating)                     |

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| Product/substance | Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts |
| Test method:      | OECD 405                                                 |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Species: Rabbit  
Result: Adverse effect observed (Causes serious eye damage)

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

Causes serious eye damage.

#### ▼ Respiratory sensitisation

Based on available data, the classification criteria are not met.

#### ▼ Skin sensitisation

Product/substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts  
Test method: OECD 406  
Species: Guinea pig  
Result: No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

#### ▼ Germ cell mutagenicity

Product/substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts  
Conclusion: No adverse effect observed

Based on available data, the classification criteria are not met.

#### ▼ Carcinogenicity

Product/substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts  
Conclusion: No adverse effect observed

Based on available data, the classification criteria are not met.

#### ▼ Reproductive toxicity

Product/substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts  
Conclusion: No adverse effect observed

Based on available data, the classification criteria are not met.

#### ▼ STOT-single exposure

Based on available data, the classification criteria are not met.

#### ▼ STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### ▼ Aspiration hazard

Based on available data, the classification criteria are not met.

#### Symptoms related to the physical, chemical and toxicological characteristics

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

##### Other information

Hydrogen chloride has been classified by IARC as a group 3 carcinogen.

## SECTION 12: Ecological information

### 12.1. ▼ Toxicity

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

|                   |                 |
|-------------------|-----------------|
| Product/substance | phosphoric acid |
| Species:          | Fish            |
| Duration:         | 96 hours        |
| Test:             | LC50            |
| Result:           | 3,0 - 3,25 mg/L |

|                   |                 |
|-------------------|-----------------|
| Product/substance | phosphoric acid |
| Species:          | Daphnia         |
| Duration:         | 48 hours        |
| Test:             | EC50            |
| Result:           | >100 mg/L       |

|                   |                 |
|-------------------|-----------------|
| Product/substance | phosphoric acid |
| Species:          | Algae           |
| Duration:         | 72 hours        |
| Test:             | EC50            |
| Result:           | >100 mg/L       |

|                   |                   |
|-------------------|-------------------|
| Product/substance | Hydrogen chloride |
| Species:          | Fish              |
| Duration:         | 96 hours          |
| Test:             | LC50              |
| Result:           | 282 mg/L ·        |

|                   |                     |
|-------------------|---------------------|
| Product/substance | Ammonium bifluoride |
| Species:          | Fish                |
| Duration:         | 96 hours            |
| Test:             | LC50                |
| Result:           | 237 mg/L ·          |

|                   |                     |
|-------------------|---------------------|
| Product/substance | Ammonium bifluoride |
| Species:          | Daphnia             |
| Duration:         | 48 hours            |
| Test:             | EC50                |
| Result:           | 10-100 mg/L ·       |

Based on available data, the classification criteria are not met.

#### 12.2. ▼ Persistence and degradability

|                   |                       |
|-------------------|-----------------------|
| Product/substance | phosphoric acid       |
| Conclusion:       | Readily biodegradable |

|                   |                       |
|-------------------|-----------------------|
| Product/substance | Hydrogen chloride     |
| Conclusion:       | Readily biodegradable |

|                   |                       |
|-------------------|-----------------------|
| Product/substance | Ammonium bifluoride   |
| Conclusion:       | Readily biodegradable |

#### 12.3. ▼ Bioaccumulative potential

|                   |                                  |
|-------------------|----------------------------------|
| Product/substance | phosphoric acid                  |
| Conclusion:       | No potential for bioaccumulation |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance Hydrogen chloride  
Conclusion: No potential for bioaccumulation

Product/substance Ammonium bifluoride  
Conclusion: No potential for bioaccumulation

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

#### 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

#### 12.7. Other adverse effects

None known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (\*)

HP 8 – Corrosive

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

#### EWC code

20 01 14\* Acids

#### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

### SECTION 14: Transport information

|             | 14.1<br>UN / ID | 14.2<br>UN proper shipping name                                                            | 14.3<br>Hazard class(es)                                                                                                                                | 14.4<br>PG* | 14.5<br>Env** | Other<br>information:                                                                                                     |
|-------------|-----------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|---------------------------------------------------------------------------------------------------------------------------|
| ADR/ADN/RID | UN3264          | CORROSIVE LIQUID, ACIDIC,<br>INORGANIC, N.O.S. (Ammonium<br>bifluoride, Hydrogen chloride) | Transport hazard class: 8<br>Label: 8<br>Classification code: C1<br> | III         | No            | Limited<br>quantities:<br>5 L<br>Tunnel<br>restriction<br>code: (E)<br>See below<br>for<br>additional<br>informatio<br>n. |
| IMDG        | UN3264          | CORROSIVE LIQUID, ACIDIC,<br>INORGANIC, N.O.S. (Ammonium<br>bifluoride, Hydrogen chloride) | Transport hazard class: 8<br>Label: 8<br>Classification code: C1                                                                                        | III         | No            | Limited<br>quantities:<br>5 L<br>EmS: F-A S-                                                                              |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

| 14.1<br>UN / ID | 14.2<br>UN proper shipping name                                                                   | 14.3<br>Hazard class(es)                                                                                                                              | 14.4<br>PG* | 14.5<br>Env** | Other<br>informatio<br>n:                               |
|-----------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|---------------------------------------------------------|
|                 |                                                                                                   |                                                                      |             |               | B<br>See below<br>for<br>additional<br>informatio<br>n. |
| IATA            | UN3264 CORROSIVE LIQUID, ACIDIC,<br>INORGANIC, N.O.S. (Ammonium<br>bifluoride, Hydrogen chloride) | Transport hazard class: 8<br>Label: 8<br>Classification code: C1<br> | III         | No            | See below<br>for<br>additional<br>informatio<br>n.      |

\* Packing group

\*\* Environmental hazards

#### Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR/ADN/RID / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### ▼ Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

#### Demands for specific education

No specific requirements.

#### SEVESO - Categories / dangerous substances

Hydrogen chloride

#### Regulation on drug precursors

Hydrogen chloride is included (Category 3)

#### Additional information

Not applicable.

#### Sources

The Management of Health and Safety at Work Regulations 1999.

Regulation (EC) No 648/2004 on detergents as retained and amended in UK law.

Control of Major Accident Hazards (COMAH) Regulations 2015.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

The Controlled Drugs (Drug Precursors) Regulations 2008.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

## 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

H301, Toxic if swallowed.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H331, Toxic if inhaled.

H335, May cause respiratory irritation.

H412, Harmful to aquatic life with long lasting effects.

### ▼ Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EC = Effective concentration

ED = Effective dose

EINECS = European Inventory of Existing Commercial chemical Substances

EL = Effective Loading

ErC = Concentration associated with x% growth rate response

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential

HP = Hazardous Property code

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IC = X maximum inhibitory concentration

IMDG = International Maritime Dangerous Goods

LC = Lethal concentration

LCLo = Value is the lowest concentration of a material in air reported to have caused the death of animals or humans

LD = Lethal dose

LOAEC = Lowest Observed Adverse Effect Concentration

LOAEL = Lowest Observed Adverse Effect Level

LOEC = Lowest Observed Effect Concentration

LogKow = logarithm of the n-octanol/water coefficient

LL = Lethal Loading

M = For multiplication factor

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NOAEC = No Observed Adverse Effect Concentration

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOELR = No Observable Effect Loading Rate

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The classification of the substance/mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

#### The safety data sheet is validated by

LÄ

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

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